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Optical Electronics in Modern Communications (The Oxford ...

Optical Electronics in Modern Communications. Optical Electronics in Modern Communications. Fifth Edition. Amnon Yariv. California Institute of Technology. New York Oxford Oxford University Press 1997. Contents. Chapter 1 ELECTROMAGNETIC THEORY 7. 1.0 Introduction 1 1.1 Complex-Function Formalism 1 Time-Averaging of Sinusoidal Products 3 1.2 Considerations of Energy and Power in

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Optical Electronics in Modern Communications

About this title. This textbook is designed for senior undergraduate and first year graduate students in electrical engineering departments taking photonics, optoelectronics or optical communications courses. The text covers key subjects in optical electronics and their applications in modern optical communications where optical waves are used as carriers of information for local and long distance transmission.

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Now in its fifth edition, Optical Electronics in Modern Communications reflects the latest developments in the field Yariv helped define. The changes to this edition emulate the continuous ascendance of optical communication to the forefront of communication technology, evidenced by the change in title from Optical Electronics in previous editions. The text introduces readers to the first principles of phenomena and devices used in the practice of laser physics, including applications based ...

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Optical Electronics in Modern Communications by Amnon Yariv

The text describes the basic physics and principles of operation of major photonic components in optical communications and electronics. These components include optical resonators, various lasers, waveguides, optical fibers, gratings, and photonic crystals. Photonics, Sixth Edition, also covers the transmission, modulation, amplification, and detection of optical beams in optical networks, as well as nonlinear optical effects in fibers.

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Photonics: Optical Electronics in Modern Communications 6th Edition by Yariv ISBN 13: 9780195687057 ISBN 10: 0195687051 Paperback; India: Oxford University, 2007; ISBN-13: 978-0195687057

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